

A NEW SPECIES OF THE GENUS GONATOPUS (HYMENOPTERA, DRYINIDAE) FROM CHINA

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Abstract *Gonatopus prolixus* sp. nov. from Shandong Province, China is described and illustrated. Type specimens are kept in the Hymenopteran Collection of Zhejiang University.

Key words Hymenoptera, Dryinidae, *Gonatopus*, new species, China.

Gonatopus Ljungh is a genus proposed in 1810. Since then about 390 species have been described from all continents (Olm, 1999; He and Xu, 2002). Of which, 33 species are recorded from China (He and Xu, 2002; Xu *et al.*, 2006). Recently one new species was described from Shandong Province in China.

The descriptions follow the terminology used by He and Xu (2002) and Olm (1984, 1989).

The measurements described are relative, except for the body length, which is expressed in millimetres. In the descriptions, POL is the distance between the inner edges of the two lateral ocelli, OL is the distance between the inner edges of a lateral ocellus and the median ocellus, OOL is the distance from the outer edge of a lateral ocellus to the compound eye.

Gonatopus prolixus sp. nov. (Figs. 1–4)

Holotype ♀, apterous. Body length 2.5 mm. Head testaceous, with posterior half of frons and vertex dark brown. Antennae testaceous, with segments 8–10 dark brown. Thorax and propodeum testaceous, with posterior apex of pronotum, ventral surface of mesothorax and scutellum dark brown. Legs fully testaceous. Metasoma black.

Antennae distally slightly thickened; antennal segments in following proportions: 22:12:38:22:16:16:13:13:12:15. Head excavated, shiny, smooth, without sculpture. Front line complete. Occipital carina absent. POL=6; OL=6.5; OOL=20. Pronotum crossed by a strong transversal furrow, shiny, smooth, without sculpture. Scutum and scutellum shiny, smooth, without sculpture. Scutum with two pointed apophyses laterally, but metanotum without pointed apophyses laterally. Mesometapleural suture distinct and complete. Anterior surface of metathorax + propodeum shiny, smooth, without sculpture; posterior surface transversely striate. Metanotum inclined, not hollow behind the scutellum. Mesopleura and metapleura shiny, smooth, without sculpture. Fore tarsal segments in following proportions: 30:7:10:40:56; enlarged claw without subapical tooth,

with a small tooth at the end of a longitudinal furrow. Segment 5 of fore tarsus with a row of 13 lamellae; apex with a group of approximately 6 lamellae. Maxillary palps 6 segments. Labial palps 3 segments. Tibial spurs 1, 0, 1.

Variation. Body length 2.4–2.6 mm; segment 5 of fore tarsus with a row of 13–16 lamellae, apex with a group of approximately 5–8 lamellae.

Male, fully winged. Body length 2.2 mm. Body black. Mandibles and clypeus testaceous. Antennae brown, with segments 1–2 testaceous. Legs testaceous, with hind coxae brown.

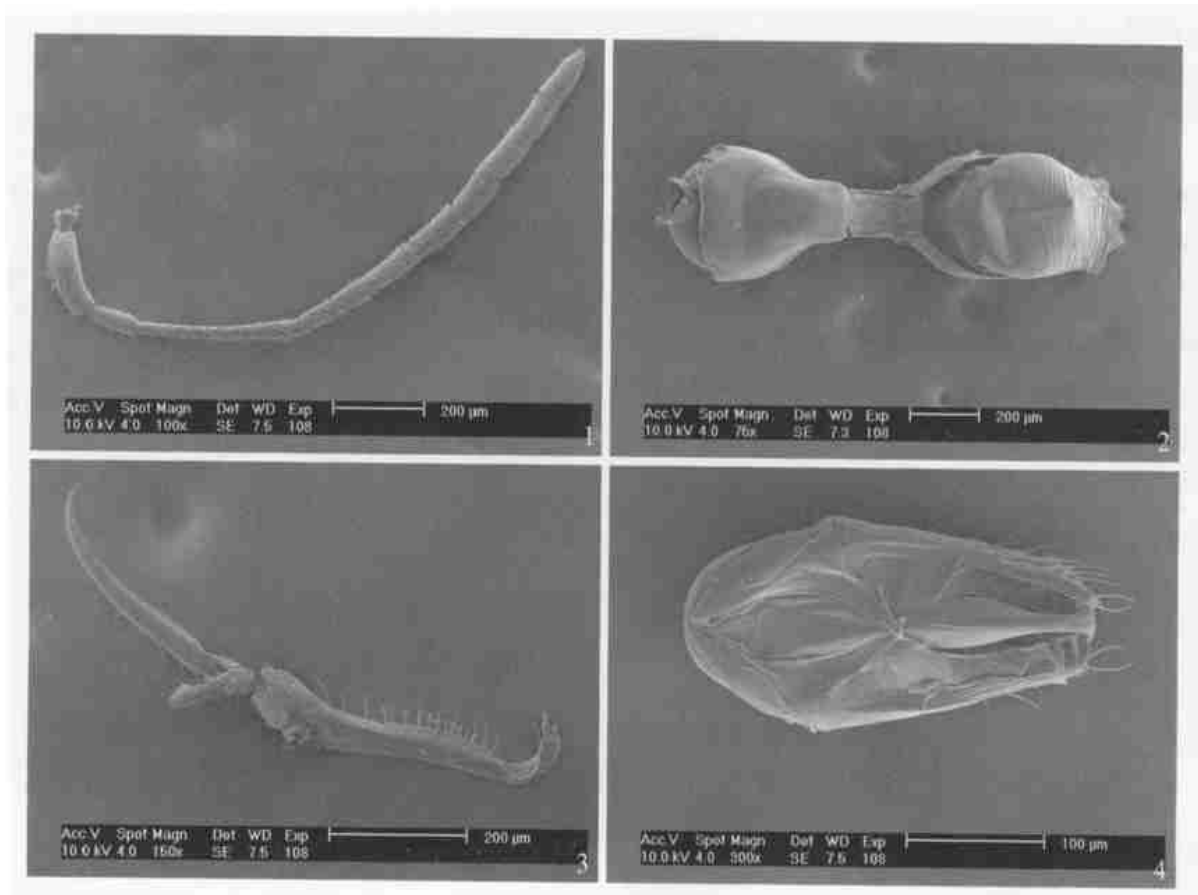
Antennae distally thinned; antennal segments in following proportions: 15:11:22:20:19:19:19:17:25; segment 3 more than three times as long as broad (22:7). Head dull, granulated. Frontal line absent. Occipital carina absent. POL=18; OL=8; OOL=4. Scutum dull, granulated; notaulices complete, posteriorly separated; minimum distance between the notaulices shorter than the breadth of the ocelli (12:9). Scutellum and metanotum shiny, smooth, without sculpture. Propodeum dull, rugose. Fore wing hyaline, without dark transversal bands; radial vein curved; distal part of radial vein longer than proximal part (46:23). Genitalia see Fig. 4. Maxillary palps 6 segments. Labial palps 3 segments. Tibial spurs 1, 1, 2.

Holotype ♀, Pingyin City, Shandong Province, China, host: nymph and adult of Cicadellidae on rose, 8 July 2006, DING Shi-Min. Paratypes: 2♀, 1♂, Pingyin City, Shandong Province, China, host: nymph and adult of Cicadellidae on rose, 10 July 2006, DING Shi-Min; 1♀, 1♂, Pingyin City, Shandong Province, China, host: nymph and adult of Cicadellidae on rose, 5–8 July 2005, YAN Jia-He.

Etymology. The specific name derives from the Latin adjective *prolixus* for the long antennal segment 3.

Distribution. China (Shandong Province).

Remarks. This species is similar to the world wide species, *G. sepsoides* Westwood, 1833, but can be separated from the latter by antennal segment 3 of female



Figs 1-4. *Gonatopus prolixus* sp. nov. 1. Antenna of female. 2. Thorax and propodeum of female in dorsal view. 3. Enlarged claw of female in lateral view. 4. Genitalia of male in dorsal view.

more than three time as long as segment 2 (the latter least than two times), head of female smooth (the latter granulated), basal part of enlarged claw without bristles (the latter with several bristles) and dorsal process of gonoforceps of male is quite different.

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中国双距螯蜂属一新种 (膜翅目, 螯蜂科)

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摘 要 记述采自山东平阴玫瑰上叶蝉寄生蜂 1 新种: 长节双距螯蜂 *Gonatopus proluxus* sp. nov.。模式标本保存于浙江大学寄生蜂标本室。

长节双距螯蜂, 新种 *Gonatopus proluxus* **sp. nov.** (图 1~ 4)

新种与全世界广布种 *Gonatopus sepsoides* Westwood, 1833 相接近, 主要区别是本种的雌虫触角第 3 节长是第 2 节的 3 倍多 (后者不足 2 倍), 雌虫头部光滑、无刻点 (后者有颗粒

状刻点), 变大爪的基部无鬃毛 (后者有几根鬃毛), 以及雄虫外生殖器的背突形状明显不同。

正模♀, 山东平阴, 寄主: 玫瑰上的叶蝉的若虫和成虫, 2006-07-08, 丁世民采。副模 2♀♀, 1 ♂♂, 山东平阴, 寄主: 玫瑰上的叶蝉的若虫和成虫, 2006-07-10, 丁世民采; 1♀, 1 ♂♂, 山东平阴, 寄主: 玫瑰上的叶蝉的若虫和成虫, 2006-07-05~ 08, 闫家河采。

关键词 膜翅目, 螯蜂科, 双距螯蜂属, 新种, 中国.
中图分类号 Q969. 551. 6